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Responsible Office: Office of Human Capital Management

Chapter 5: Mission Statements and Organzation Charts for Centers As Well as Technical and Service Support Centers

5.1 Ames Research Center (ARC)

5.1.1 MISSION. Ames Research Center (ARC), located in California?s Silicon Valley, provides solutions to NASA?s exploration questions through interdisciplinary scientific discovery and innovative technology systems. Ames provides leadership in Astrobiology, information science, nanotechnology, advanced thermal protection systems, human factors, and the development of new tools for a safer and more efficient national air space. Ames also develops unique partnerships and collaborations, exemplified by the NASA Astrobiology Institute, the NASA Research Park, and the University Affiliated Research Center.

5.1.2 RESPONSIBILITIES. The Center Director is responsible for the following:

5.1.2.1 Provides leadership for NASA?s Astrobiology science mission to study the origin, evolution, distribution, and destiny of life in the Universe.

5.1.2.2 Oversees the NASA Astrobiology Institute (NAI) and its cadre of domestic and international partners; serves as the home base for the NAI administrative offices.

5.1.2.3 Leads the science and technical management of NASA?s airborne physical sciences missions; oversees the SOFIA (Stratospheric Observatory for Infrared Astronomy) Science Missions and Operations Center.

5.1.2.4 Leads the science and technical management of selected NASA missions (including the development of atmospheric probes) to search for habitable environments, understand the origin and evolution of life, and develop the tools needed for this exploration.

5.1.2.5 Provides leadership for NASA information sciences and technology, particularly research in the critical sub-disciplines of automated reasoning for autonomous systems, high-performance computing and networking, and human-centered computing; performs Earth science investigations, in particular ecosystems research, supported by advanced supercomputing and modeling.

5.1.2.6 Develops research facilities and plans and conducts ground-based and flight research programs which examine the effects of the space environment on living systems; which includes the Agency?s only suite of animal and human rated acceleration facilities and a full-time, AAALAC fully accredited Animal Care Facility; and which also provides veterinary oversight for the conduct of NASA animal research.

5.1.2.7 Develops new applications to enable and enhance space exploration, in particular nanotechnology applications to reduce mass and increase vehicle payload capacity and advanced thermal protection systems for transportation and planetary entry missions.

5.1.2.8 Serves as a NASA leader in the area of information technology security, in support of the NASA Chief Information Officer.

5.1.2.9 Provides leadership in ensuring the safety and security of the Nation's airspace, in particular through advanced air traffic management and air traffic control.

5.1.2.10 Performs scientific investigations in-house and through extensive cooperative arrangements with the academic community and private sector within the United States and with foreign institutions; furnishes research and development support to industry and academia as the outgrowth of cooperative utilization of ARC-unique facilities.

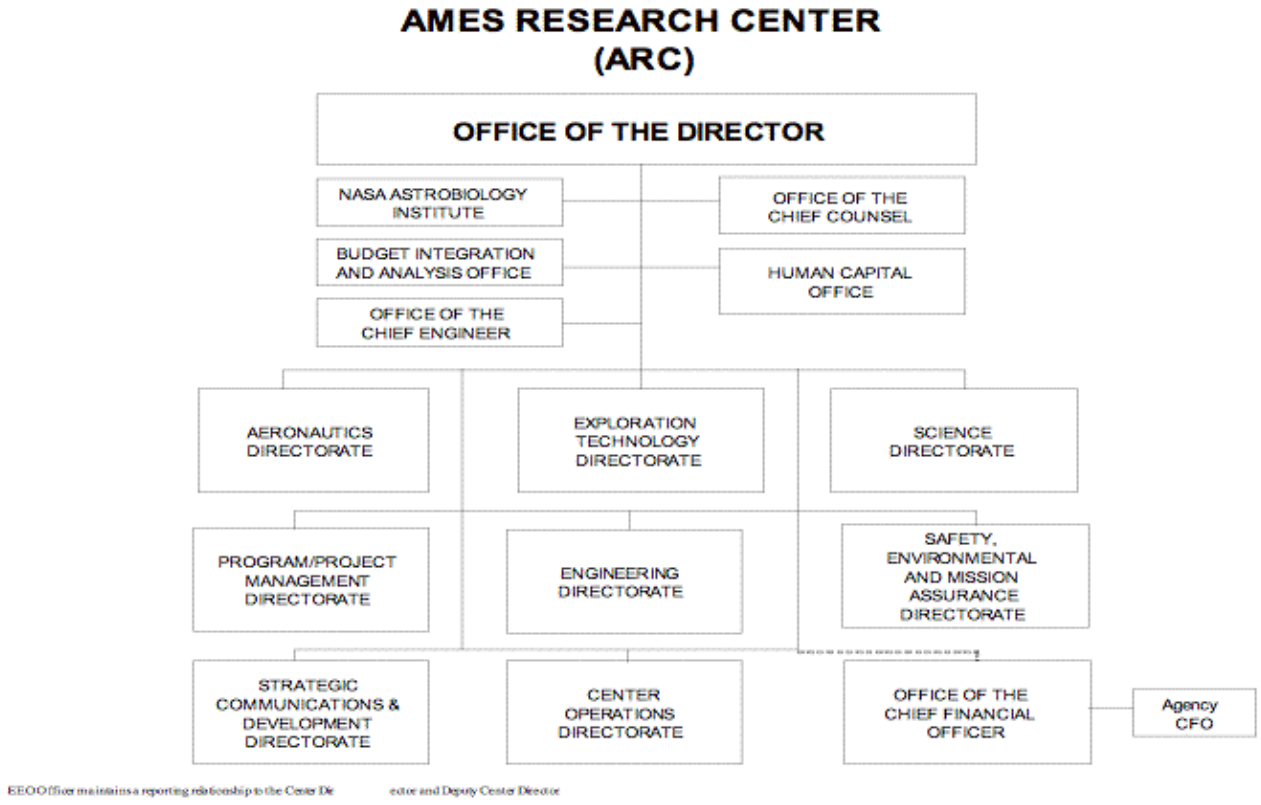
5.1.2.11 Implements innovative partnerships and collaborations through the development of NASA Research Park and the realization of the University Affiliated Research Center (with the University of California); accomplishes this in part through execution of Enhanced Use Leasing (EUL).

5.1.2.12 Conducts education and outreach to inform and inspire the public, communicates scientific knowledge and transfers technology to the public and private sectors, and spins external technologies back into NASA programs and projects.

5.1.2.13 Manages Independent Technical Authority (ITA) activities supporting resident programs and projects as identified by Agency ITA policy.

5.1.3 SPECIAL RELATIONSHIPS. ARC serves as host to other Federal, military, and civilian organizations, such as the California Air National Guard.

5.1.4 LINE OF SUCCESSION. In the following order: Deputy Director, Ames Research Center; Deputy Director for Research; Associate Director Space Programs and Projects; Director of Center Operations; Chief Financial Officer; Director of Aerospace; Director for Project Management and Engineering; and Director of Science.



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5.2 Dryden Flight Research Center (DFRC)

5.2.1 MISSION. The Dryden Flight Research Center (DFRC), located at Edwards Air Force Base, California, develops experiments and conducts flights to advance technology for future aerospace vehicles, to understand and protect our environment, and to inspire the next generation. DFRC performs flight research and technology integration to revolutionize aviation, advance space transportation, and pioneer aerospace technology; conducts airborne remote sensing and in situ observations, and supports operations of the Space Shuttle and the International Space Station, for NASA and the nation.

5.2.2 RESPONSIBILITIES. The Center Director is responsible for the following:

5.2.2.1 Conceiving, formulating, and conducting piloted and unpiloted flight research programs in disciplinary technology, integrated aerospace systems, and advanced concepts to meet current and future missions throughout

subsonic, supersonic, and hypersonic flight regimes.

5.2.2.2 Developing, managing, and maintaining research and science platform aircraft, flight testbed aircraft, and flight facilities to support safe, timely, and cost-effective NASA flight programs and to support industry, university, and other Government agency flight programs.

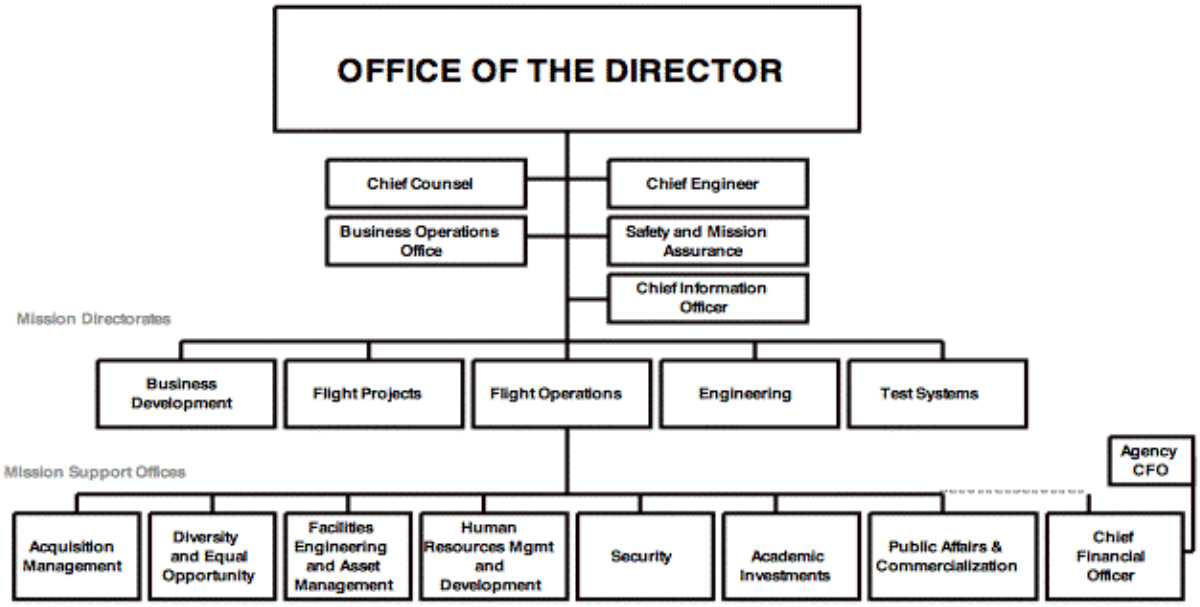
5.2.2.3 Implementing flight research programs in cooperation with other NASA Centers, other Government agencies, the aerospace industry, and universities, as well as for transitioning results, techniques, methods, and tools to industry and Government users.

5.2.2.4 Providing operational and technical support for the conduct of Space Shuttle missions, including on-orbit tracking and communications, landing support, and post-flight mission requirements: providing on-orbit tracking and communications for the International Space Station: and providing flight test support for atmospheric tests of experimental or developmental launch systems.

5.2.3 SPECIAL RELATIONSHIPS. The United States Air Force Research Laboratory (AFRL) has designated DFRC as their Flight Research Agent. In addition, DFRC shares an infrastructure alliance with the U.S. Air Force Flight Test Center (AFFTC) to minimize infrastructure duplication.

5.2.4 LINE OF SUCCESSION. In the following order: Deputy Director, Dryden Flight Research Center; Associate Director for Programs; Associate Director for Operations; and Associate Director for Management.

DRYDEN FLIGHT RESEARCH CENTER (DFRC)



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5.3 John H. Glenn Research Center (GRC) at Lewis Field

5.3.1 MISSION. The John H. Glenn Research Center (GRC) at Lewis Field, as a diverse team working in partnership with government, industry, and academia to increase national wealth, safety, and security, protect the environment, and explore the universe, we develop and transfer critical technologies that address national priorities through research, technology development, and systems development for safe and reliable aeronautics, aerospace, and space applications.

5.3.2 RESPONSIBILITIES. The Center Director is responsible for the following:

5.3.2.1 Assuring that the workforce embraces and reflects the values of safety, the NASA family, integrity, and excellence, in accomplishing the mission and as our inherent guiding principles in all activities and decision making.

5.3.2.2 Assuring the development of a strategic plan which sets out future goals and priorities (e.g., extraterrestrial surface power).

5.3.2.3 Assuring that the Center?s capabilities are aligned with all Agency mission areas.

5.3.2.4 Maintaining and growing further excellence in:

a. Aeronautical propulsion.

b. In-space propulsion (e.g., electric and nuclear).

c. Aero- and space-based power systems and technologies.

d. Aero and space communications technologies.

e. Biological and physical research.

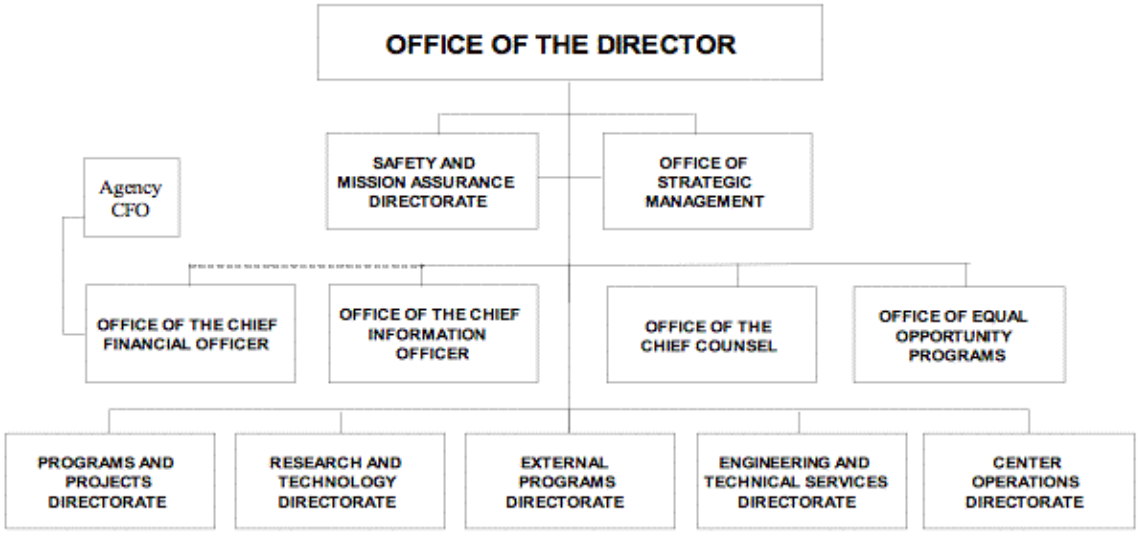
5.3.2.5 Assuring the establishment and maintenance of partnerships with other government agencies, the private sector, academia, and the community to further the mission.

5.3.2.6 Maintaining a safe, healthful, and environmentally friendly work environment for the workforce and providing safety, reliability, and quality assurance in all Center activities.

5.3.2.7 Providing, developing, managing, and maintaining the facilities and infrastructure necessary to accomplish current and future missions.

5.3.2.8 Managing Independent Technical Authority (ITA) activities that support resident programs and projects as identified by Agency ITA Policy. 5.3.3 LINE OF SUCCESSION. In the following order: Deputy Director, John H. Glenn Research Center at Lewis Field; and Associate Director, John H. Glenn Research Center at Lewis Field.

JOHN H. GLENN RESEARCH CENTER at LEWIS FIELD
(GRC)



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5.4 Goddard Space Flight Center (GSFC)

5.4.1 MISSION. The Goddard Space Flight Center (GSFC), located in Greenbelt, Maryland, expands the knowledge of Earth and its environment, the solar system, and the universe through observations from space. The Center also conducts scientific investigations, develops and operates space systems, and advances essential technologies.

5.4.2 RESPONSIBILITIES. The Center Director is responsible for the following:

5.4.2.1 Conducts research to advance scientific knowledge of the origin, evolution, and destiny of the universe, and of Earth and planetary environments supportive of life.

5.4.2.2 Designs, develops and implements sensors, instruments, and flight missions to study the structure of the

universe; its fundamental forces and matter; the processes involved in the birth, life, and death of stars, galaxies, and planets; and the chemical and biological conditions for the evolution and sustenance of life.

5.4.2.3 Studies the sun, the Earth, other planets, and other bodies in the solar system to understand the impact of solar activity on the Earth?s climate and human activity; and on space and planetary radiation environments encountered in human exploration.

5.4.2.4 Studies the Earth?s atmospheric, oceanographic, cryospheric, hydrological, geologic, and biogeochemical cycles to understand the Earth as a system; to apply this understanding of the Earth to the study of the nature and evolution of other planets; and to apply discoveries from this study of other planets to an improved understanding of our own planet.

5.4.2.5 Applies knowledge gained from Earth and planetary studies to search the stars for other planets with the potential for supporting life. Performs theoretical research, analysis, modeling, and simulation to develop and test theories, and to synthesize data from space missions and ground-based observations to develop an integrated understanding of our planet, our sun, and our universe as a system.

5.4.2.6 Communicates knowledge to the public and to the education community to expand general understanding and to inspire the next generation.

5.4.2.7 Develops advanced technology for future space flight missions, with emphasis on optical communications, advanced science instrumentation, data systems, robotics, and computer science.

5.4.2.8 Develops and procures suborbital launch vehicles and launch services.

5.4.2.9 Manages assigned programs and projects, including the preliminary and final definition, design, development, integration and test, launch, and operations of flight and unique ground systems for Earth-orbiting and geosynchronous satellites and for Shuttle-attached payloads, and delivery of instruments and associated flight systems, ground systems, long-term flight operations, the Science Institute for the Hubble Space Telescope, and projects using NASA Sounding Rockets and Balloons.

5.4.2.10 Manages Independent Technical Authority (ITA) activities supporting resident programs and projects as identified by Agency ITA policy.

5.4.2.11 Supports the Space Operations Program by managing the NASA space flight tracking, data acquisition, communications, and data handling networks and services in support of NASA and other spacecraft, and operates ground data systems to support GSFC missions.

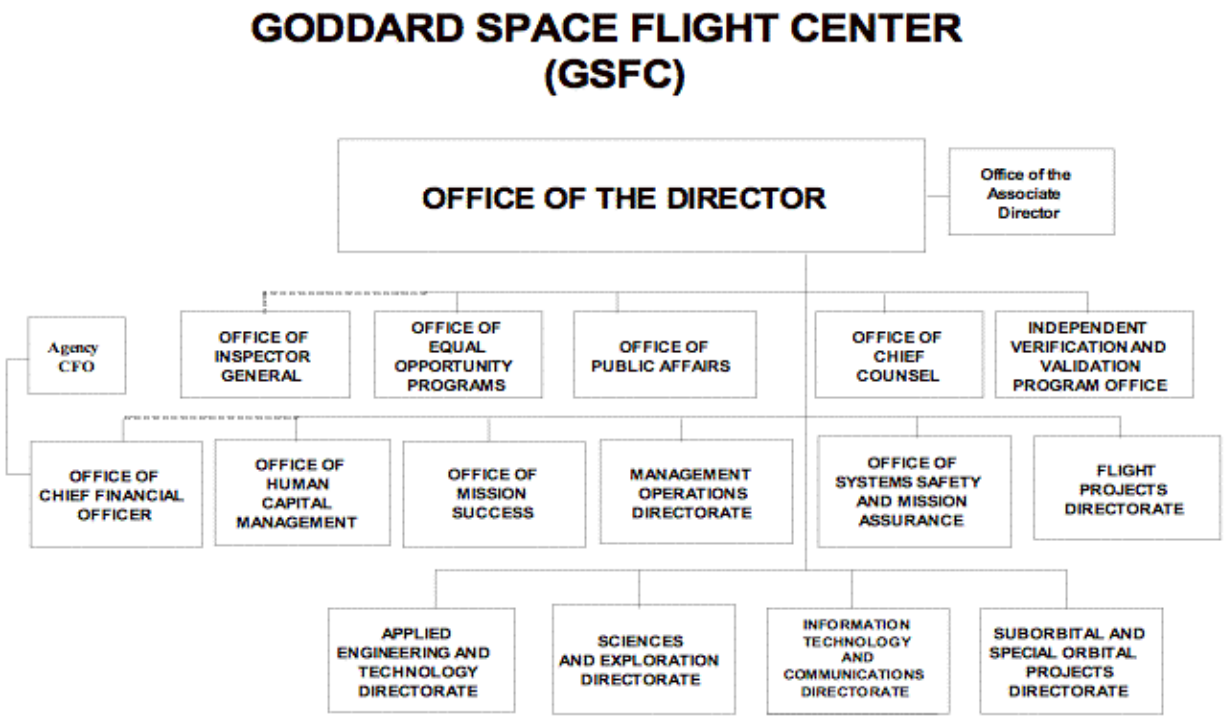
5.4.2.12 Directs mission planning and analysis, space and ground communications networks, spacecraft and payload command and control, flight dynamics, information processing, and flight missions operations, and applied research and development of advanced data and telecommunications systems in support of space flight missions.

5.4.2.13 Manages the Wallops Flight Facility rocket range, aircraft flight platforms, and research airport, including related tracking and data acquisition systems for conducting scientific experiments and aeronautical tests. Plans and conducts launches of scientific payloads and aeronautical tests and other research, development, and related activities as requested by elements of NASA, other Government Agencies, and the worldwide scientific community.

5.4.2.14 Provides services to NASA Headquarters in a variety of assigned business functions, including HQ accounting, procurement, grants, training and development, logistics, related administrative support; and Agency printing management, forms, reports, and mail management.

5.4.3 SPECIAL RELATIONSHIP. GSFC provides design, development, testing, launch, and maintenance of a constellation of operational satellites for the National Oceanic and Atmospheric Administration, Department of Commerce. This activity is fully funded by the Department of Commerce.

5.4.4 LINE OF SUCCESSION. In the following order: Deputy Director, Goddard Space Flight Center; Deputy Director for Technical; Associate Director; and Director, Management Operations.



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5.5 Lyndon B. Johnson Space Center (JSC)

5.5.1 MISSION. The Lyndon B. Johnson Space Center (JSC), located in Houston, Texas, provides national leadership for human space exploration and operations. The Center strives to advance human capability for exploration and utilization of space conducting space-related, as well as the design, test, and development of space flight hardware and systems. The Center has responsibility for the operation of the Space Shuttle, the International Space Station (ISS) as well as other human space systems. The Center advances the human capability for space exploration by developing and maintaining excellence in the fields of project management, space systems engineering, crew and mission operations, medical and life sciences, and lunar and planetary geosciences. Program management of the Space Shuttle and ISS programs resides at JSC, and while program authority resides at NASA Headquarters, the Center provides the independent technical authority, independent safety and mission assurance and engineering support for these programs. JSC also provides management and support for Space Operations, Extra Vehicular Activity (EVA) projects, Bioastronautics, Cellular Science, and Astromaterials Sciences.

5.5.2 RESPONSIBILITIES. The Center Director is responsible for the following:

5.5.2.1 Manages and supports space vehicle and space systems development programs as follows:

a. Provides program and system level managers and associated developmental and design sustaining engineering support to the Space Shuttle and ISS programs.

b. Manages assigned projects and technologies as well as provides vehicle, system, and subsystem expertise critical to both the Agency and JSC for future roles in space utilization and exploration.

5.5.2.2 Plans and conducts space flight, crew, and aircraft operations as follows:

a. Provides Agencywide consolidated operations support environment for space networks, command and control facilities, operations data processing and planning systems, and telecommunications systems.

b. Conducts flight operations for the Space Shuttle Program and ISS Program Office, including providing the flight and support environment to satisfy mission objectives and ensure mission safety.

c. Provides Agencywide project management of EVA services to the Space Shuttle and ISS programs and services for future programs requiring low-g (gravity) or surface EVA capabilities, including all EVA-related research and development activities.

d. Manages flight crew operations including selection and training.

e. Conducts aircraft operations in support of astronaut flight readiness training, high-altitude research, low-g flight evaluations, orbiter transportation, Agency logistics, and administrative functions.

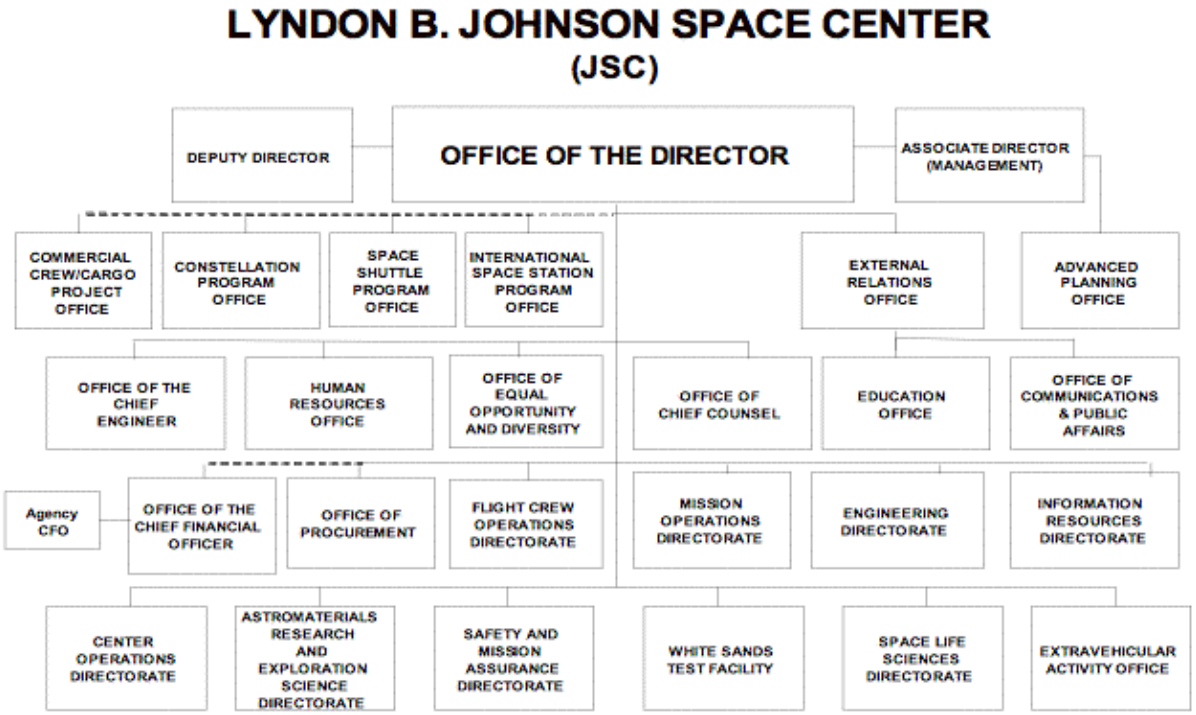
5.5.2.3 Plans and conducts ground-based and flight operational and research programs in the fields of Bioastronautics (health care, environmental and human factors, adaptation, and countermeasures), Cellular Sciences, and Astromaterials Research and Exploration Sciences (ARES ? lunar and planetary science, astromaterials science, orbital debris, and earth observation sciences).

5.5.2.4 Develops and integrates scientific, medical, and technological experiments and payloads to be flown on the Space Shuttle, Spacelab, and ISS.

5.5.2.5 Integrates all JSC Implementing Center requirements and objectives, including schedule, budget, technical requirements, and safety and reliability standards and ensures that human, financial, physical, and other supporting resources are properly applied to programs.

5.5.3 SPECIAL RELATIONSHIP. Promotes the Agency?s strategic goals and, with common purpose of achieving NASA?s Vision and Mission, supports all of the Agency?s Enterprises and Centers.

5.5.4 LINE OF SUCCESSION. In the following order: Deputy Director, Johnson Space Center and Associate Director (Management).



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5.6 John F. Kennedy Space Center (KSC)

5.6.1 MISSION. The John F. Kennedy Space Center (KSC), located in Florida, is responsible for the Agency?s Space Launch Operations and Spaceport and Range Technologies. Home to the Space Shuttle fleet and the Launch Services Program, KSC carries out its primary mission by managing the processing and launch of astronaut crews; the Space Shuttle and associated payloads; International Space Station elements, research experiments, and supplies; and enabling the payload processing of a wide variety of robotics payloads launched on commercial services into Earth orbit and beyond. KSC serves as a supporting Center for the Space Shuttle and International Space Station programs. KSC's mission is also to serve as NASA's focal point for spaceport and range technology development efforts in order to provide advanced technologies, systems, and techniques to increase safety and security as well as reduce the cost of access to space. Additionally, Principal Center activities assigned by the Agency include Drug-Free Workplace Laboratory Services, Employee Relocation Services, NASA's Contracting Intern Program, Recycling and Affirmative Procurement, NASA Acquisition Pollution Prevention, Specifications Kept Intact, Facility Project Management System, Security/Law Enforcement Standards and Training, Fire Protection

Program, Metrology and Calibration, Range Safety, NASA-wide Aerospace Fluids Acquisition and Management, and NASA Emergency Preparedness Program.

5.6.2 RESPONSIBILITIES. The Director, KSC, is responsible for the following:

5.6.2.1 Provides space systems processes, test, and launch techniques and develops spaceport and range technologies.

5.6.2.2 Designs, constructs, operates, and maintains NASA space vehicle facilities, ground-support equipment, and associated software required for launch and recovery operations, including development of new launch and recovery operations concepts, techniques, and associated hardware for NASA developed launch vehicles.

5.6.2.3 Teams with space launch vehicle designers at other NASA Centers and industry to assure lessons learned from processing of launch vehicles are incorporated in later generations to improve the maintainability, supportability, reliability, and safety and to reduce cost of access to space.

5.6.2.4 Operates and maintains ground-support equipment, facilities, and logistics support for NASA launch activities conducted at KSC, Cape Canaveral Air Force Station, and Space Shuttle orbiter contingency sites worldwide.

5.6.2.5 Conducts the final preparation and integrated checkout of vehicles, spacecraft, payloads, launch facilities, ground-support equipment, and launch and recovery operations at all launch sites referenced in paragraph 5.6.2.4 above for Space Shuttle missions.

5.6.2.6 Develops, prototypes, tests, and deploys technologies to users for spaceport and range systems and provides testbeds, laboratories, tools, and expertise in these areas.

5.6.2.7 Manages Independent Technical Authority (ITA) activities supporting resident projects as identified by Agency ITA policy.

5.6.3 SPECIAL RELATIONSHIPS.

5.6.3.1 Center implementation of Agency and Mission Directorate policy and programmatic direction regarding investments, facilities, and personnel competencies, especially in the context of resolving disputes, are coordinated through NASA?s Space Operations Mission Directorate, because the workload of the Center is dominated by business lines emanating from this directorate.

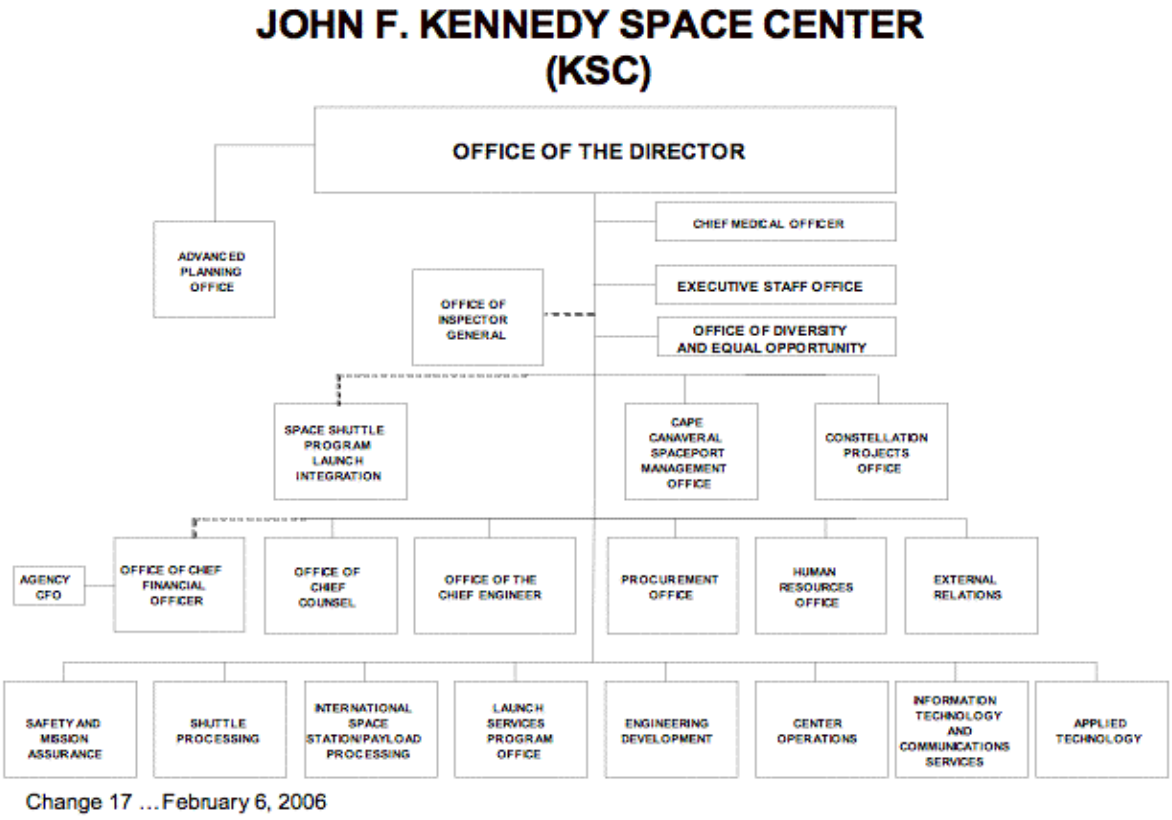
5.6.3.2 KSC supports the Launch Services Program, which serves as the Agency ITA for services acquired from the commercial industry and/or DOD, with payload processing, institutional and business resources, capabilities and expertise.

5.6.3.3 KSC is a supporting Center to the Space Shuttle program in the areas of preflight and launch operations, flight hardware spares, and launch site logistics. This includes test, processing, and integration of Space Shuttle elements. KSC also provides certain logistics services for other NASA Centers supporting the Space Shuttle program.

5.6.3.4 KSC is a supporting Center for the International Space Station program in the areas of preflight and launch operations, launch site logistics support, re-supply, and customer utilization. This includes the integration, test, and processing for research experiments and other payloads for the International Space Station.

5.6.3.5 Promotes the Agency?s strategic goals and, with common purpose of achieving NASA?s vision and mission, support all of the Agency?s Mission Directorates and Centers.

5.6.4 LINE OF SUCCESSION. In the following order: Deputy Director, Kennedy Space Center; Associate Director, Kennedy Space Center; Director, Shuttle Processing; Director, International Space Station/Payload Processing; and Director, Launch Services Programs.



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5.7 Langley Research Center (LaRC)

5.7.1 MISSION. The Langley Research Center (LaRC) is located in Hampton, Virginia. In alliance with industry, other agencies, and academia, LaRC develops aerospace vehicle technologies to fly in all planetary atmospheres to assure the preeminence of the U.S. aerospace products, progress toward the Space Exploration Vision, and mission success for assigned NASA projects and programs; and in alliance with the science community, LaRC pioneers the development of flight instruments and technologies to advance our scientific understanding of the chemistry and radiation characteristics of all planetary atmospheres.

5.7.2 RESPONSIBILITIES. The Center Director is responsible for the following:

5.7.2.1 Assessing, in partnership with the U.S. aerospace community, opportunities for national aerospace programs to conduct and develop advanced aeronautics and space research and technology, systems studies, and related capabilities required for current missions, advanced developments, and new capabilities.

5.7.2.2 Planning and conducting, in partnership with the science community, a sciences program which provides an understanding of the fundamental characteristics and processes of atmospheric chemistry and radiation of Earth and other planetary atmospheres as well as extending associated instruments and techniques to other space exploration mission objectives via competitive selections.

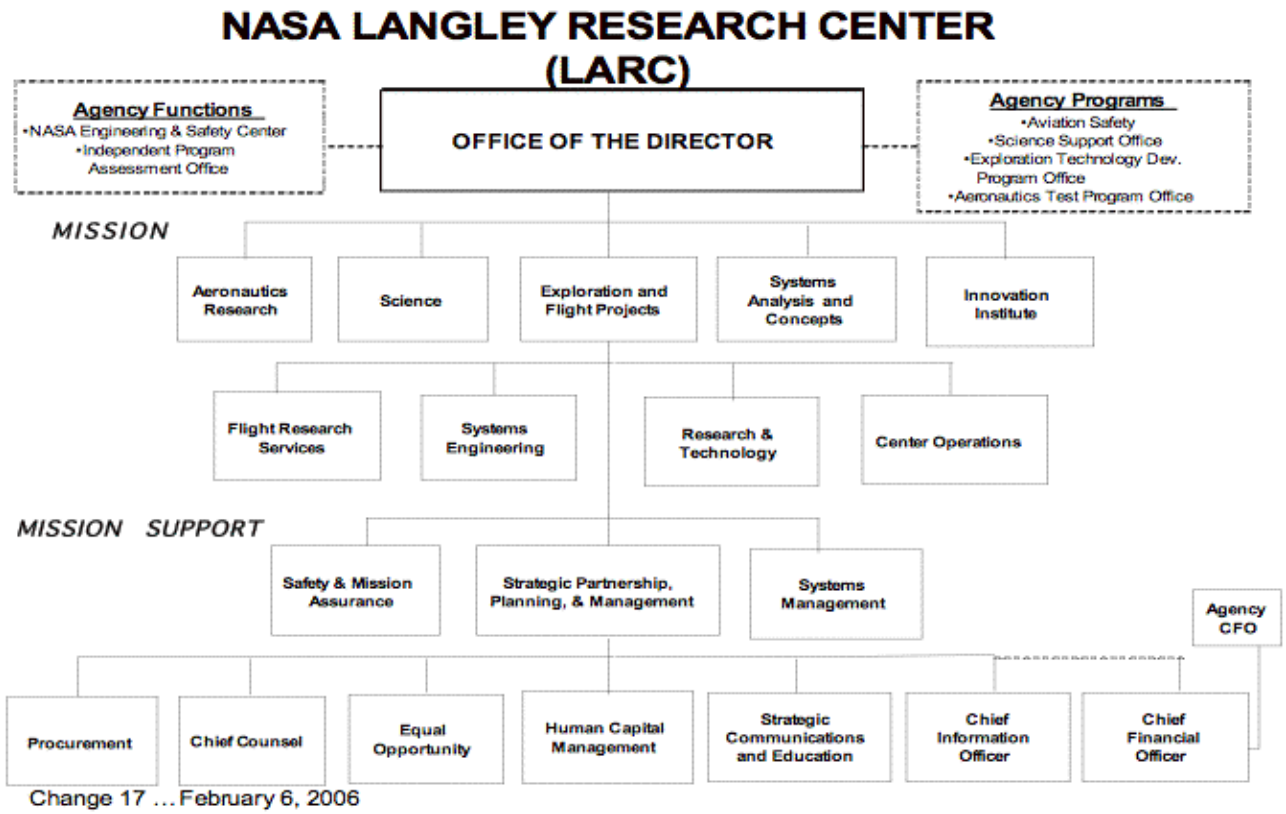
5.7.2.3 Conducting research and developing technology for assigned projects with emphasis on mission and systems analysis; aerodynamics, aerothermodynamics, and acoustics; structures and materials; airborne systems and crew station design/integration; atmospheric chemistry and radiation; and space flight experiments. Providing, managing, and maintaining laboratories and facilities, simulators, aircraft, and other required capabilities to support these projects.

5.7.2.4 Developing, managing, and maintaining NASA structures and materials capabilities, including personnel, facilities, processes, and procedures, in the context of current Agency capabilities at each Center and current/future Agency program requirements.

5.7.2.5 Providing and managing an institutional base in support of NASA, other Federal and state agencies, and components of U.S. industry engaged in advanced research and technology in aeronautics and space, as well as the extension of these technologies to nonaerospace applications which enhance the U.S. economic posture.
5.7.2.6 Directing program implementation for the NASA Engineering and Safety Center.

5.7.2.7 Managing Independent Technical Authority (ITA) activities supporting resident programs and projects as identified by Agency ITA policy.

5.7.4 LINE OF SUCCESSION. In the following order: Deputy Director, Langley Research Center; Associate Director for Operations, and Chief of Staff.



5.8 George C. Marshall Space Flight Center (MSFC)

5.8.1 MISSION. The George C. Marshall Space Flight Center (MSFC), located in Huntsville, Alabama, has the assigned Agency responsibility for space transportation systems development, propulsion systems and components development, space optics manufacturing technology, and selected space systems development, including scientific spacecraft, human support systems, and payload development and operations. MSFC provides management and implementation of research, technology maturation, design, development, and integration of NASA-developed space transportation and propulsion systems, including Space Shuttle propulsion element improvements, development of launch vehicles, and vehicles for orbital transfer and propulsion systems for exploration and deep space missions. MSFC develops, implements, and advocates advanced earth-to-orbit and in-space propulsion systems and technologies. With specific NASA expertise in various research disciplines, MSFC develops, integrates, and operates payloads and experiments, and leads payload operations for the International Space Station Program; and conducts and manages various research and development programs and projects.

5.8.2 RESPONSIBILITIES. The Center Director is responsible for:

5.8.2.1 Developing a broad-based research and development capability, consistent with the assigned responsibilities.

5.8.2.2 Planning, executing, and managing assigned programs and projects through the product?s life cycle for the following primary activities:

a. Propulsion and space transportation elements, systems, and subsystems.

b. Technology maturation for advanced space transportation and propulsion systems.

c. Exploration systems projects and tasks.

d. Flight and ground systems for facilities, payloads, instruments, and experiments that support exploration and science.

e. Payload operations for Space Shuttle and International Space Station.

f. Selected scientific spacecraft development and operations.

g. Advanced environmental control and life support systems for the International Space Station and assigned

exploration systems.

h. Basic and applied research and technologies that provide solutions for exploration challenges in areas such as earth and space science, material science, strategic biomolecular research for exploration, propulsion research, and space optics.

i. Advanced studies to fulfill collaborative Center roles and responsibilities.

j. Independent Technical Authority (ITA) activities supporting resident programs and projects as identified by Agency ITA policy.

5.8.3 SPECIAL RELATIONSHIPS.

5.8.3.1 Provides Space Shuttle propulsion elements to Shuttle Program Office, Johnson Space Center (JSC).

5.8.3.2 Provides program management of the In-Space Propulsion, Next Generation Launch Technologies, Discovery and New Frontiers, Space Partnership Development, Chandra X-ray Observatory, and Gravity Probe B Programs to Agency Mission Directorates.

5.8.3.3 Provides payload operations for the Space Shuttle and International Space Station to JSC.

5.8.3.4 Provides engineering support for development and operation of interconnecting nodes and logistics module elements of the International Space Station to JSC.

5.8.3.5 Provides large optics manufacturing and test capability to other NASA Centers.

5.8.3.6 Provides research knowledge to appropriate Agency Mission Directorates.

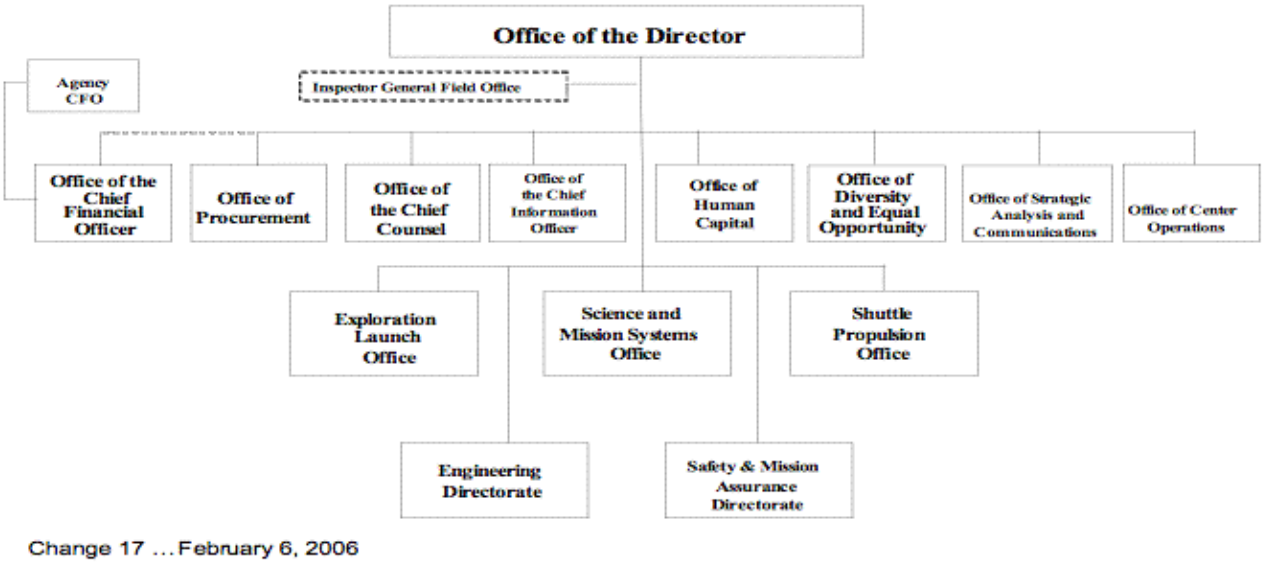
5.8.3.7 Provides propulsion test requirements, expertise, and capabilities to Stennis Space Center (SSC).

5.8.3.8 Oversees the National Space Science & Technology Center, a collaborative research and education initiative, in cooperation with the State of Alabama, other Government agencies, academia, and industry.

5.8.3.9 Provides Agencywide management and support in technical areas such as network communications, NASA Data Center, Agencywide applications and the Integrated Financial Management Program, NASA Automated Data Processing Consolidation, NASA Operational environment team, and others, as well as administrative systems such as personnel, logistics, and Agency payroll.

5.8.3.10 Implements Agency and Mission Directorate policy and programmatic direction regarding investments, facilities, and personnel competencies, especially in the context of resolving disputes

5.8.3.11 Promotes the Agency?s strategic goals and, with common purpose of achieving NASA?s Vision and Mission, support all of the Agency?s Mission Directorates and Centers. 5.8.4 LINE OF SUCCESSION. In the following order: Deputy Director, Marshall Space Flight Center; Associate Director, Marshall Space Flight Center; Director, Engineering Directorate; and Director, Space Transportation Programs/Projects Office.



5.9 John C. Stennis Space Center (SSC)

5.9.1 MISSION. The John C. Stennis Space Center (SSC), located near Bay St. Louis, Mississippi, is charged with implementing NASA's mission in areas of responsibility assigned by two Agency Mission Directorates-- Space Operations and Science. In NASA's Space Space Operations Mission Directorate, SSC has program management responsibility for Rocket Propulsion Testing. Within NASA's Science Mission Directorate, SSC has program management responsibility for Earth Science Applications and is designated as the Systems Engineering Center for Earth Science Applications. SSC also serves as Federal manager and host agency of a major Government multi-agency Center.

5.9.2 RESPONSIBILITIES. The Center Director is responsible for the following:

5.9.2.1 Manages, operates, develops, and maintains NASA Rocket Propulsion Test capabilities, including people, facilities, and associated processes and procedures.

5.9.2.2 Provides test operations services to NASA, Department of Defense, commercial, and other customers for the development of propulsion systems, engines, subsystems, and components.

5.9.2.3 Accomplishes the development, flight certification, and acceptance testing of the Space Shuttle Main Engines.

5.9.2.4 Manages NASA's effort to optimize benefits from NASA?s Earth Science investments through systems engineering to advance decision support tools that serve the Nation.

5.9.2.5 Manages SSC as an integrated multi-agency Federal laboratory for the programmatic benefit of NASA and the other Federal and State agencies in residence.

5.9.2.6 Manages Independent Technical Authority (ITA) activities supporting resident programs and projects as identified by Agency ITA policy.

5.9.3 SPECIAL RELATIONSHIPS.

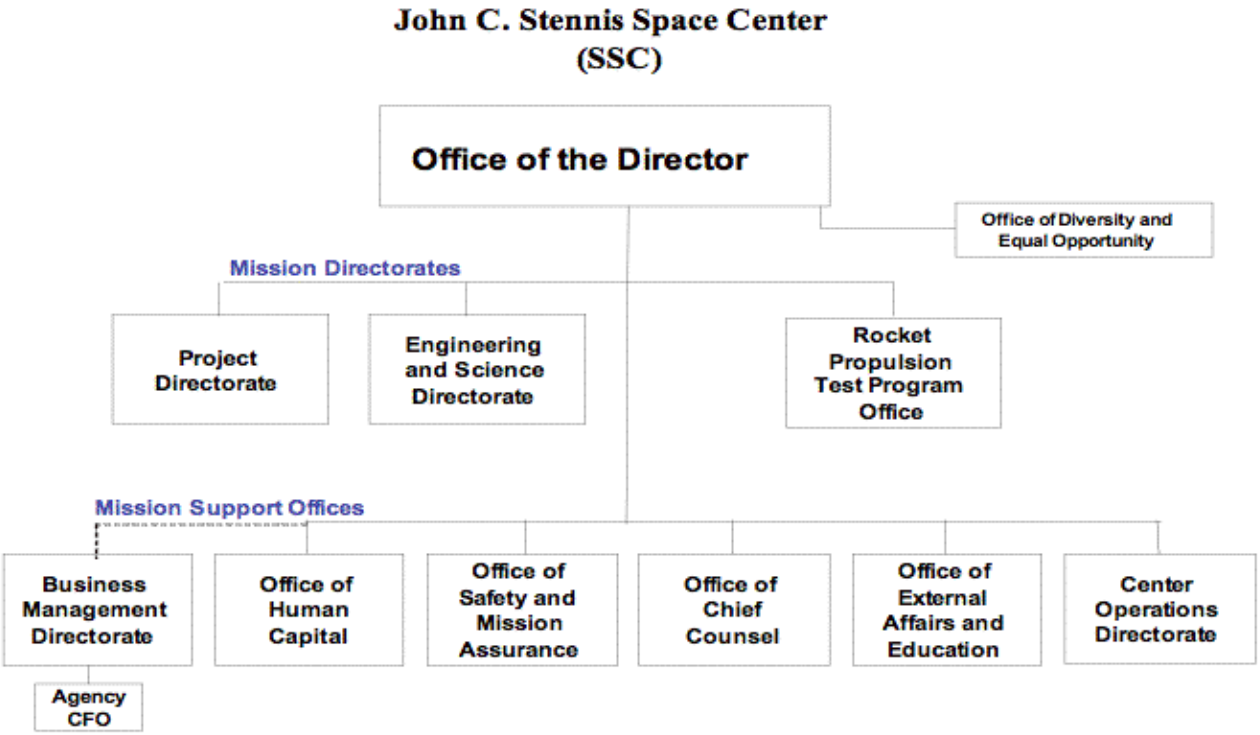
5.9.3.1 SSC has program management responsibility for managing all of the Agency's rocket propulsion test assets.
5.9.3.2 SSC has program management responsibility for systems engineering for Earth Science applications in support of other Federal agencies for the enhancement of their decision support systems.

5.9.3.3 Center implementation of Agency and Mission Directorate policy and programmatic direction regarding investments, facilities, and personnel competencies, especially in the context of resolving disputes, are coordinated through NASA?s Space Operations Mission Directorate, because the workload of the Center is dominated by business lines emanating from this directorate.

5.9.3.4 SSC is a support Center to other Centers in their lead program roles.

5.9.3.5 Promotes the Agency's strategic goals and, with common purpose of achieving NASA's Vision and Mission, support all of the Agency's Mission Directorates and Centers.

5.9.4 LINE OF SUCCESSION. In the following order: Deputy Director, Stennis Space Center; Associate Director, Stennis Space Center; Director, Propulsion Test Directorate; and Director, Center Operations Directorate.



Change 20?March 14, 2006

5.10 NASA Engineering and Safety Center (NESC)

5.10.1 MISSION. The NESC, managed at the Langley Research Center, serves as a major Agencywide technical resource focused on engineering excellence supporting the safety and success of NASA missions. The NESC provides independent engineering and technical expertise to evaluate technical problems and supplement Center-based engineering and safety activities for NASA programs. The NESC shall perform independent engineering assessments, analysis, and testing to assure technical adequacy, thus, safety of NASA activities. In relation to the Center?s mission, the term ?safety? encompasses those aspects of NASA system designs and operations that are important to mission success and that relate to potential risks to the public, to NASA, and to contractor flight and ground personnel. The term ?engineering? signifies any of the professional technical design, manufacturing, and operational disciplines, including systems engineering and the various assurance engineering disciplines. The NESC serves the safety and mission assurance, engineering, and program/project communities as a value added, independent resource.

5.10.2 RESPONSIBILITIES. The NESC Director reports directly to the Director, Langley Research Center, in support of the Chief Engineer and the Chief Safety and Mission Assurance Officer, and performs the following activities:

5.10.2.1 Provides a centralized location for the management of independent engineering assessment supported by expert personnel and state-of-the-art tools and methods for the purpose of assuring safety.

5.10.2.2 Performs independent engineering review, analysis, and testing to uncover technical vulnerabilities and to determine the appropriate preventive or corrective action for NASA programs.

5.10.2.3 Performs independent safety and engineering trend analyses and technical risk assessments utilizing program and discipline data sources and state-of-the-art tools and techniques while looking for trends across and within programs.

5.10.2.4 Provides technical leadership and expertise in support of Agency engineering and safety and mission assurance assessments and reviews (provides recommendations certifying the adequacy of areas reviewed).

5.10.2.5 Facilitates and/or leads mishap investigations. Analyzes Agency mishap and close-call data for trends and causes, develops countermeasures for root causes, and disseminates information on analysis results.

5.10.2.6 Promotes continual improvement of engineering and safety within NASA by capturing, disseminating, and using knowledge gleaned both inside and outside the Agency.

5.10.2.7 Assesses and validates existing analytical techniques, engineering standards, models, simulations, and other tools for adequacy and capability. Enhances or corrects deficient analytical techniques and tools and develops advanced assessment techniques and tools.

5.10.2.8 Participates as appropriate in Agency engineering and system safety training and mentoring programs.

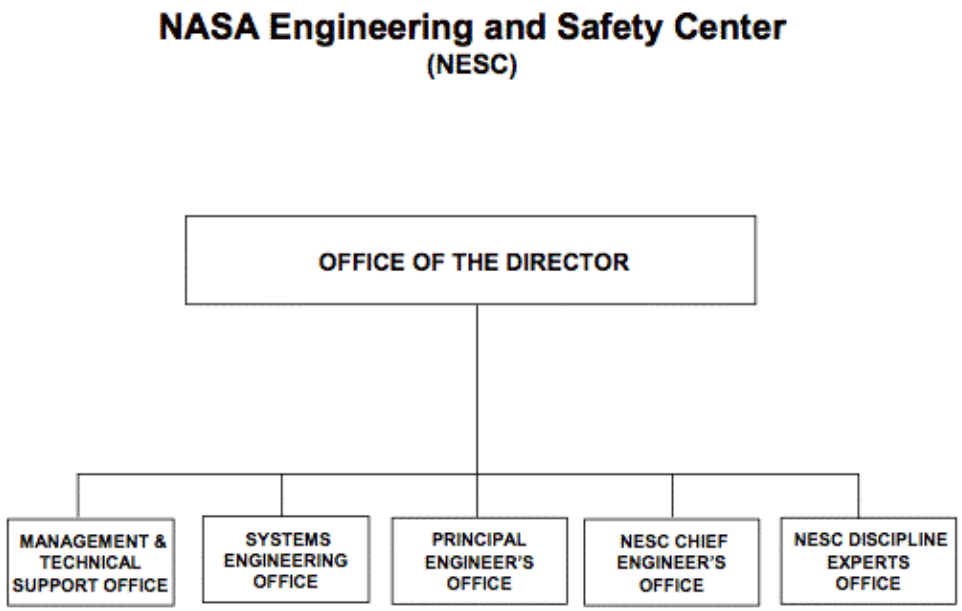
5.10.3 SPECIAL RELATIONSHIPS.

5.10.3.1 The NESC Director reports to the Director, Langley Research Center.

5.10.3.2 The Chief Safety and Mission Assurance Officer and the Chief Engineer jointly establish program direction that the Director, Langley Research Center, will implement through the NESC. The Chief Safety and Mission Assurance Officer, the Chief Engineer, and the Director, Langley Research Center, will establish an agreed-upon process for integrating and implementing this program direction. The Chief Safety and Mission Assurance Officer assures the proper formulation and adequacy of the NESC budget.

5.10.3.3 NASA Centers provide technical personnel to support operation of the NESC as requested by the NESC Director, consistent with program direction.

5.10.4 LINE OF SUCCESSION. Deputy Director, NASA Engineering and Safety Center; Deputy Director for Safety, NASA Engineering and Safety Center; and Management and Technical Support Office Manager, NASA Engineering and Safety Center.



Change 1?September 21, 2004

5.11 NASA Shared Services Center (NSSC)

5.11.1 MISSION. The NASA Shared Services Center (NSSC), located at Stennis Space Center, serves as a major Agencywide service resource that provides timely, accurate, high quality, cost effective, and customer-focused services for NASA. The NSSC serves the Information Technology (IT), Financial Management, Procurement, and Human Resources communities as a value added, independent resource. Increased operational efficiency and improved overall customer service will be achieved through consolidated business and technical services. By achieving synergy within and across functions the NSSC will reduce resource requirements for institutional support areas and position NASA for further business process improvements and innovations.

5.11.2 RESPONSIBILITIES.

5.11.2.1 The NSSC Executive Director reports directly to the Associate Administrator for Institutions and Management, and is responsible for the following:

5.11.2.2 Provides timely, accurate, high quality, cost effective, and customer-focused support for selected NASA business and technical services.

5.11.2.3 Processes transactional work in the areas of IT, Financial Management, Procurement, and Human Resources for NASA.

5.11.2.4 Provides effective and consistent services for all employees and vendors by standardizing business processes and integrating systems and technology.

5.11.2.5 Implements an organization that employs shared services leading practices in management and process development.

5.11.2.6 Promotes the Agency?s strategic goals with the common purpose of achieving NASA?s Vision and Mission by providing support Agencywide.

5.11.3 SPECIAL RELATIONSHIP

5.11.3.1 NSSC shares an infrastructure alliance with Stennis Space Center to minimize infrastructure duplication.

5.11.3.2 Works in cooperation with the following officials to provide services at the NSSC:

a. Chief Financial Officer to provide management of financial management services.

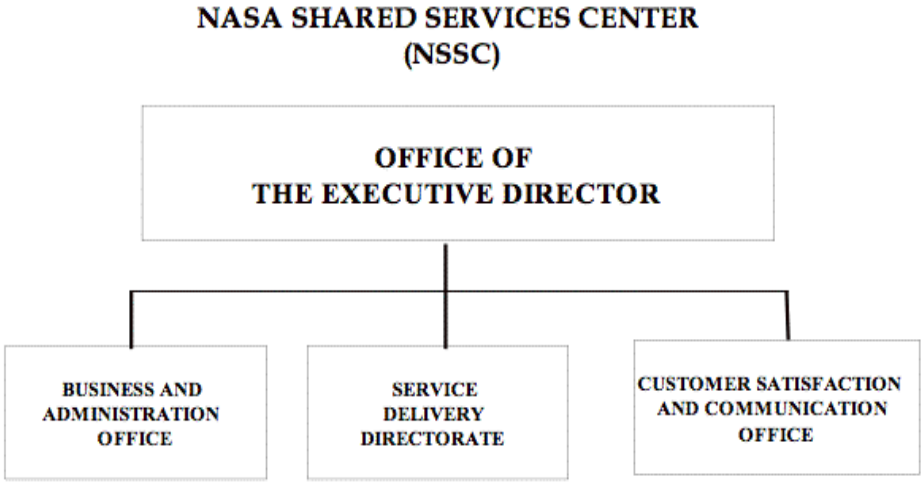
b. Assistant Administrator for Human Capital Management to provide management of human resources services.

c. Chief Information Officer to provide management of information technology (IT) ffservices.

d. Assistant Administrator for Procurement to provide management of procurement services.

5.11.4 LINE OF SUCCESSION. In the following order: Deputy Director, NSSC; Director for Service Delivery Directorate, NSSC; Director for Business and Administration Office, NSSC; and Director of Customer Satisfaction and Communications Office, NSSC.

Change 14?August 26, 2005



Change 14?August 26, 2005

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